IN THE CLAIMS:

1. (Currently amended) A method in a data processing system for isolating failing hardware in the data processing system, the method comprising:

responsive to detecting a recovery attempt from an error for an operation involving a hardware component, storing an indication of the attempt; and

responsive to the error exceeding a threshold, placing the hardware component in a permanently unavailable state, wherein the detecting step occurs in a device driver and placing step occurs in a firmware.

- (Original) The method of claim 1 further comprising:
 clearing the unavailable state of the hardware component in response to a hot-plug action replacing the hardware component.
- (Original) The method of claim 1, wherein the placing step comprises:
 making a call to a hardware interface layer to place the hardware component into a permanent reset state.
- 4. (Original) The method of claim 1, wherein the indication is stored in an error log.
- 5. (Canceled)
- 6. (Original) The method of claim 1, wherein the error is an error caused by a PCI bus operation.
- 7. (Original) The method of claim 1, wherein the detecting and placing steps occur in a firmware layer within the data processing system.
- 8. (Canceled)

- 9. (Original) The method of claim 1, wherein the threshold is the error successively a selected number of times.
- 10. (Currently amended) A method in a data processing system for handling errors, the method comprising:

responsive to an occurrence of an error, determining whether the error is a recoverable error;

responsive to a determination that the error is a recoverable error, identifying at least one [[slots]] slot on a bus indicating an error state;

incrementing an error counter for said at least one identified slot; and responsive to the error counter exceeding a threshold, placing said at least one slot into an unavailable state, wherein the determining step occurs in a device driver and placing step occurs in a firmware.

- 11. (Previously presented) The method of claim 10 further comprising: responsive to the error counter failing to exceed the threshold, placing said at least one slot into an available state, wherein a device within said at least one slot resumes functioning.
- 12. (Currently amended) A data processing system comprising:
 - a bus system;
 - a communications unit connected to the bus system;
- a memory connected to the bus system, wherein the memory includes a set of instructions; and
- a processing unit connected to the bus system, wherein the processing unit executes the set of instructions to store an indication of a recovery attempt from an error in response to detecting the recovery attempt; and place the hardware component in a permanently unavailable state in response to the error exceeding a threshold, wherein the detecting step occurs in a device driver and placing step occurs in a firmware.

- 13. (Currently amended) A data processing system comprising:
 - a bus system;
 - a communications unit connected to the bus system;
- a memory connected to the bus system, wherein the memory includes a set of instructions; and
- a processing unit connected to the bus system, wherein the processing unit executes the set of instructions to determine whether the error is a recoverable error in response to an occurrence of an error; identify at least one [[slots]] slot on the bus indicating an error state in response to a determination that the error is a recoverable error; increment an error counter for said at least one identified slot; and place said at least one slot into an unavailable state in response to the error counter exceeding a threshold, wherein the determining step occurs in a device driver and placing step occurs in a firmware.
- 14. (Currently amended) A data processing system for isolating failing hardware in the data processing system, the data processing system comprising:

storing means, responsive to detecting a recovery attempt from an error, for storing an indication of the attempt; and

placing means, responsive to the error occurring in the more than a threshold for a hardware component, for placing the hardware component in a permanently unavailable state, wherein the detecting step occurs in a device driver and placing means occurs in a firmware.

- 15. (Original) The data processing system of claim 14 further comprising:
 clearing means for clearing the unavailable state of the hardware component in
 response to a hot-plug action replacing the hardware component.
- 16. (Original) The data processing system of claim 14, wherein the placing means comprises:

means for making a call to a hardware interface layer to place the hardware component into a permanent reset state.

17. (Original) The data processing system of claim 14, wherein the indication is stored in an error log.

18. (Canceled)

- 19. (Original) The data processing system of claim 14, wherein the error is an error caused by a PCI bus operation.
- 20. (Original) The data processing system of claim 14, wherein the detecting means and the placing means are located in a firmware layer within the data processing system.
- 21. (Canceled)
- 22. (Original) The data processing system of claim 14, wherein the threshold is the error successively a selected number of times.
- 23. (Currently amended) A data processing system for handling errors, the data processing system comprising:

determining means, responsive to an occurrence of an error, for determining whether the error is a recoverable error;

identifying means, responsive to a determination that the error is a recoverable error, for identifying at least one [[slots]] slot on a bus indicating an error state;

incrementing means for incrementing an error counter for said at least one identified slot; and

placing means, responsive to the error counter exceeding a threshold, for placing said at least one slot into an unavailable state, wherein the determining step occurs in a device driver and placing step occurs in a firmware.

24. (Previously presented) The data processing system of claim 23, wherein the placing means is a first placing means and further comprising:

second placing means, responsive to the error counter failing to exceed the threshold, for placing said at least one slot into an available state, wherein a device within said at least one slot resumes functioning.

25. (Currently amended) A computer program product in a computer readable medium for isolating failing hardware in a data processing system, the computer program product comprising:

first instructions, responsive to detecting a recovery attempt from an error, for storing an indication of the attempt; and

second instructions, responsive to the error occurring in the more than a threshold for a hardware component, for placing the hardware component in a permanently unavailable state, wherein the detecting step occurs in a device driver and placing step occurs in a firmware.

- 26. (Original) The computer program product of claim 25 further comprising: third instructions for clearing the unavailable state of the hardware component in response to a hot-plug action replacing the hardware component.
- 27. (Original) The computer program product of claim 25, wherein the placing step comprises:

third instructions for making a call to a hardware interface layer to place the hard ware component into a permanent reset state.

- 28. (Original) The computer program product of claim 25, wherein the indication is stored in an error log.
- 29. (Canceled).
- 30. (Original) The computer program product of claim 25, wherein the error is an error caused by a PCI bus operation.

31. (Original) The computer program product of claim 25, wherein the detecting and placing steps occur in a firmware layer within the data processing system.

32. (Canceled)

- 33. (Original) The computer program product of claim 25, wherein the threshold is the error successively a selected number of times.
- 34. (Currently amended) A computer program product in a computer readable medium for handling errors, the computer program product comprising:

first instructions, responsive to an occurrence of an error, for determining whether the error is a recoverable error;

second instructions, responsive to a determination that the error is a recoverable error, for identifying at least one [[slots]] slot on a bus indicating an error state;

third instructions for incrementing an error counter for said at least one identified slot; and

fourth instructions, responsive to the error counter exceeding a threshold, for placing said at least one slot into an unavailable state, wherein the determining step occurs in a device driver and placing step occurs in a firmware.

35. (Previously presented) The computer program product of claim 34 further comprising:

fifth instructions, responsive to the error counter failing to exceed the threshold, for placing said at least one slot into an available state, wherein a device within said at least one slot resumes functioning.